ABSTRACT

A voice control system for managing home electrical appliances includes a home agent server (HAS) connected to the home electrical appliances, a microphone and a speaker linked to the agent server through an in-house network. An transaction processing (TP) program runs on HAS and interprets the user's voice request to find a destined appliance and a manner of control the same, and performs the requested control to the destined appliance. The result is notified to the user by means of a voice message.

10	in-house network	48	private information database
11	power distribution lines		
14	telephone network	51	microphone
15	information network	52	speaker
		54	human presence sensor
20	home agent server (HAS)		
21	voice recognition module	60	personal computer
22	speech synthesis module	61	microphone
23	control signal output module	62	speaker
24	text composing module		
25	in-house communication interface	70	mobile phone
26	public communication interface	80	data service center
		81	database
27	voice command table		
29	application executing environment	100	home information and power distribution center
30	transaction processing (TP) program	111	living room
		112	bed room
31	control center	113	kid room
32	instruction interpreting module		
33	room locating module	201	lighting fixture
34	voice locating module	202	air conditioner
35	user identification module	203	door
36	access permission module		
37	appliance control module	210	ceiling receptacle
38	database control module		
39	migration module	222	control table
40	home maintenance database		
41	appliance control table		
41A	appliance address table		
42	site address table		
43	personal information table		